Digital Transistors (BRT) R1 = 47 k Ω , R2 = 47 k Ω

PNP Transistors with Monolithic Bias Resistor Network

This series of digital transistors is designed to replace a single device and its external resistor bias network. The Bias Resistor Transistor (BRT) contains a single transistor with a monolithic bias network consisting of two resistors; a series base resistor and a base–emitter resistor. The BRT eliminates these individual components by integrating them into a single device. The use of a BRT can reduce both system cost and board space.

Features

- Simplifies Circuit Design
- Reduces Board Space
- Reduces Component Count
- S and NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant

MAXIMUM RATINGS (T_A = 25°C)

Rating	Symbol	Max	Unit
Collector-Base Voltage	V _{CBO}	50	Vdc
Collector-Emitter Voltage	V_{CEO}	50	Vdc
Collector Current – Continuous	I _C	100	mAdc
Input Forward Voltage	$V_{IN(fwd)}$	40	Vdc
Input Reverse Voltage	V _{IN(rev)}	10	Vdc

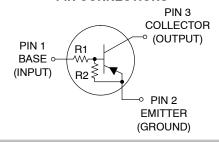
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.



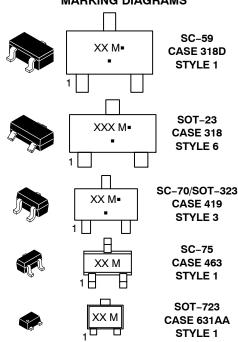
ON Semiconductor®

www.onsemi.com

PIN CONNECTIONS



MARKING DIAGRAMS



STYLE

XXX = Specific Device Code

IX MIL 1

M = Date Code*
■ Pb-Free Package

(Note: Microdot may be in either location)

*Date Code orientation may vary depending upon manufacturing location.

ORDERING INFORMATION

See detailed ordering, marking, and shipping information in the package dimensions section on page 2 of this data sheet.

SOT-1123

CASE 524AA STYLE 1

Table 1. ORDERING INFORMATION

Device	Part Marking	Package	Shipping [†]
MUN2113T1G, SMUN2113T1G*	6C	SC-59 (Pb-Free)	3000 / Tape & Reel
MMUN2113LT1G, SMMUN2113LT1G*	A6C	SOT-23 (Pb-Free)	3000 / Tape & Reel
MMUN2113LT3G, NSVMMUN2113LT3G*	A6C	SOT-23 (Pb-Free)	10000 / Tape & Reel
MUN5113T1G, SMUN5113T1G*	6C	SC-70/SOT-323 (Pb-Free)	3000 / Tape & Reel
MUN5113T3G	6C	SC-70/SOT-323 (Pb-Free)	10000 / Tape & Reel
DTA144EET1G, NSVDTA144EET1G*	6C	SC-75 (Pb-Free)	3000 / Tape & Reel
DTA144EM3T5G	6C	SOT-723 (Pb-Free)	8000 / Tape & Reel
NSBA144EF3T5G	E	SOT-1123 (Pb-Free)	8000 / Tape & Reel

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

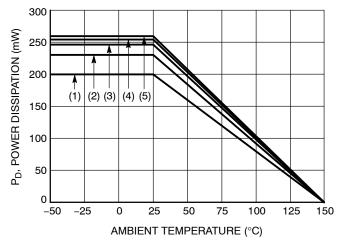


Figure 1. Derating Curve

- (1) SC-75 and SC-70/SOT-323; Minimum Pad
- (2) SC-59; Minimum Pad
- (3) SOT-23; Minimum Pad
- (4) SOT-1123; 100 mm², 1 oz. copper trace
- (5) SOT-723; Minimum Pad

Table 2. THERMAL CHARACTERISTICS

	Characteristic	Symbol	Max	Unit
THERMAL CHARACTERISTI	CS (SC-59) (MUN2113)			
Total Device Dissipation T _A = 25°C (Note 1) (Note 2)		P _D	230 338	mW
Derate above 25°C (Note 2)	(Note 1)		1.8 2.7	mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	$R_{ hetaJA}$	540 370	°C/W
Thermal Resistance, Junction to Lead (Note 2)	(Note 1)	$R_{ hetaJL}$	264 287	°C/W
Junction and Storage Temper	ature Range	T _J , T _{stg}	-55 to +150	°C
THERMAL CHARACTERISTI	CS (SOT-23) (MMUN2113L)			
Total Device Dissipation T _A = 25°C (Note 1)		P _D	246	mW
(Note 2) Derate above 25°C (Note 2)	(Note 1)		400 2.0 3.2	mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	$R_{ hetaJA}$	508 311	°C/W
Thermal Resistance, Junction to Lead (Note 2)	(Note 1)	$R_{ hetaJL}$	174 208	°C/W
Junction and Storage Temper	rature Range	T _J , T _{stg}	-55 to +150	°C
THERMAL CHARACTERISTI	CS (SC-70/SOT-323) (MUN5113)			
Total Device Dissipation T _A = 25°C (Note 1)		P _D	202	mW
(Note 2) Derate above 25°C (Note 2)	(Note 1)		310 1.6 2.5	mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	$R_{ hetaJA}$	618 403	°C/W
Thermal Resistance, Junction to Lead (Note 2)	(Note 1)	$R_{ hetaJL}$	280 332	°C/W
Junction and Storage Temper	ature Range	T _J , T _{stg}	-55 to +150	°C
THERMAL CHARACTERISTI	CS (SC-75) (DTA144EE)			
Total Device Dissipation T _A = 25°C (Note 1)		P _D	200	mW
(Note 2) Derate above 25°C (Note 2)	(Note 1)		300 1.6 2.4	mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	$R_{ hetaJA}$	600 400	°C/W
Junction and Storage Temper	rature Range	T _J , T _{stg}	-55 to +150	°C
THERMAL CHARACTERISTI	CS (SOT-723) (DTA144EM3)			
Total Device Dissipation T _A = 25°C (Note 1)		P _D	260	mW
(Note 2) Derate above 25°C (Note 2)	(Note 1)		600 2.0 4.8	mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	$R_{ hetaJA}$	480 205	°C/W
Junction and Storage Temper	rature Range	T _J , T _{stg}	-55 to +150	°C

- 1. FR-4 @ Minimum Pad.
- 2. FR-4 @ 1.0 x 1.0 Inch Pad.
- FR-4 @ 100 mm², 1 oz. copper traces, still air.
 FR-4 @ 500 mm², 1 oz. copper traces, still air.

Table 2. THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit			
THERMAL CHARACTERISTICS (SOT-1123) (NSBA144EF3)						
Total Device Dissipation T _A = 25°C (Note 3) (Note 4) Derate above 25°C (Note 3) (Note 4)	P _D	254 297 2.0 2.4	mW mW/°C			
Thermal Resistance, (Note 3) Junction to Ambient (Note 4)	$R_{ hetaJA}$	493 421	°C/W			
Thermal Resistance, Junction to Lead (Note 3)	$R_{ hetaJL}$	193	°C/W			
Junction and Storage Temperature Range	T _J , T _{stg}	-55 to +150	°C			

- FR-4 @ Minimum Pad.
 FR-4 @ 1.0 x 1.0 Inch Pad.
 FR-4 @ 100 mm², 1 oz. copper traces, still air.
 FR-4 @ 500 mm², 1 oz. copper traces, still air.

Table 3 ELECTRICAL CHARACTERISTICS (T. = 25°C unloss others

Characteristic	Symbol	Min	Тур	Max	Unit
OFF CHARACTERISTICS					
Collector–Base Cutoff Current $(V_{CB} = 50 \text{ V}, I_E = 0)$	I _{CBO}	-	_	100	nAdc
Collector–Emitter Cutoff Current (V _{CE} = 50 V, I _B = 0)	I _{CEO}	-	-	500	nAdc
Emitter-Base Cutoff Current (V _{EB} = 6.0 V, I _C = 0)	I _{EBO}	-	_	0.1	mAdc
Collector–Base Breakdown Voltage $(I_C = 10 \mu A, I_E = 0)$	V _(BR) CBO	50	-	-	Vdc
Collector–Emitter Breakdown Voltage (Note 5) (I _C = 2.0 mA, I _B = 0)	V _(BR) CEO	50	_	-	Vdc
ON CHARACTERISTICS					
DC Current Gain (Note 5) (I _C = 5.0 mA, V _{CE} = 10 V)	h _{FE}	80	140	-	
Collector–Emitter Saturation Voltage (Note 5) (I _C = 10 mA, I _B = 0.3 mA)	V _{CE(sat)}	-	_	0.25	Vdc
Input Voltage (off) ($V_{CE} = 5.0 \text{ V}, I_{C} = 100 \mu\text{A}$)	V _{i(off)}	-	1.2	0.8	Vdc
Input Voltage (on) $(V_{CE} = 0.3 \text{ V, } I_{C} = 2.0 \text{ mA})$	V _{i(on)}	3.0	1.6	-	Vdc
Output Voltage (on) ($V_{CC} = 5.0 \text{ V}$, $V_B = 3.5 \text{ V}$, $R_L = 1.0 \text{ k}\Omega$)	V _{OL}	-	-	0.2	Vdc
Output Voltage (off) (V _{CC} = 5.0 V, V _B = 0.5 V, R _L = 1.0 k Ω)	V _{OH}	4.9	-	_	Vdc
Input Resistor	R1	32.9	47	61.1	kΩ
Resistor Ratio	R ₁ /R ₂	0.8	1.0	1.2	

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

5. Pulsed Condition: Pulse Width = 300 msec, Duty Cycle ≤ 2%.

TYPICAL CHARACTERISTICS MUN2113, MMUN2113L, MUN5113, DTA144EE, DTA144EM3

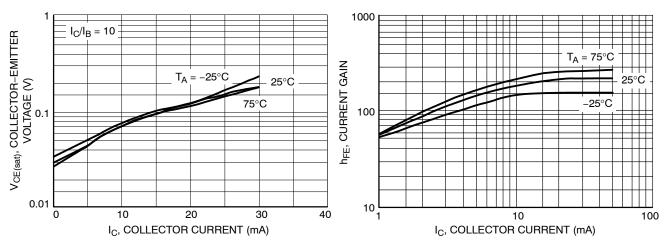


Figure 2. V_{CE(sat)} vs. I_C

Figure 3. DC Current Gain

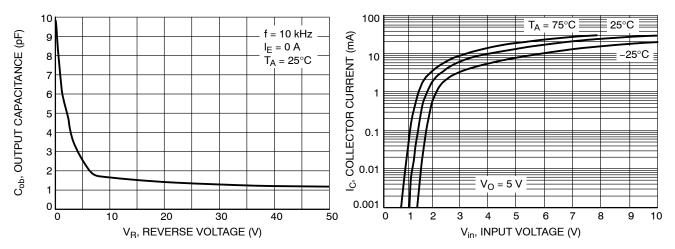


Figure 4. Output Capacitance

Figure 5. Output Current vs. Input Voltage

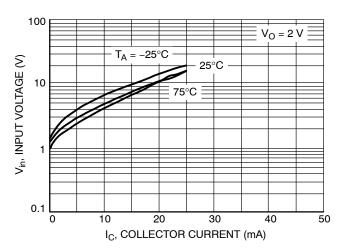
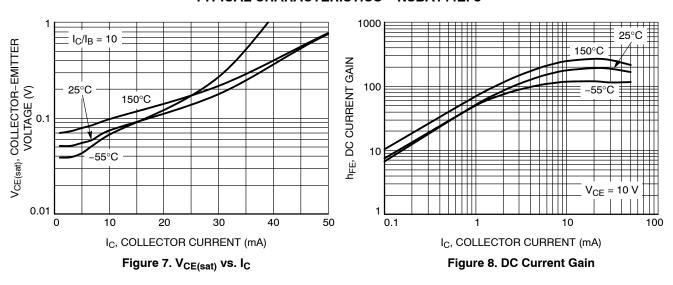


Figure 6. Input Voltage vs. Output Current

TYPICAL CHARACTERISTICS - NSBA144EF3



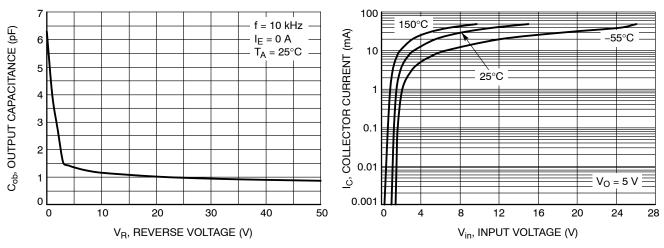


Figure 9. Output Capacitance

Figure 10. Output Current vs. Input Voltage

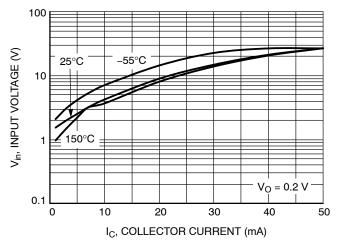


Figure 11. Input Voltage vs. Output Current



SOT-23 (TO-236) CASE 318-08 **ISSUE AS**

DATE 30 JAN 2018

0.017

0.021

0.094

0.022

0.027

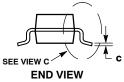
0.104

10°

SCALE 4:1 D Ε – 3X h **TOP VIEW**







RECOMMENDED SOLDERING FOOTPRINT



DIMENSIONS: MILLIMETERS

PIN 1. RETURN

3. INPUT

3. ANODE

STYLE 28: PIN 1. ANODE 2. ANODE

2. OUTPUT

NOTES:

0.43

0.54

2.40

0.30

0.35

2.10

0°

ΗE

- NOTES:
 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
 2. CONTROLLING DIMENSION: MILLIMETERS.
 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH.
 MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF THE BASE MATERIAL
- 4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

	MILLIMETERS				INCHES	
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α	0.89	1.00	1.11	0.035	0.039	0.044
A1	0.01	0.06	0.10	0.000	0.002	0.004
b	0.37	0.44	0.50	0.015	0.017	0.020
С	0.08	0.14	0.20	0.003	0.006	0.008
D	2.80	2.90	3.04	0.110	0.114	0.120
Е	1.20	1.30	1.40	0.047	0.051	0.055
9	1 78	1 90	2 04	0.070	0.075	0.080

0.55

0.69

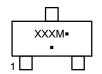
2.64

10° 0° **GENERIC MARKING DIAGRAM***

0.012

0.014

0.083



XXX = Specific Device Code

= Date Code

PIN 1. ANODE 2. CATHODE

3. GATE

= Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " ■", may or may not be present.

STYLE 1 THRU 5: CANCELLED	STYLE 6: PIN 1. BASE 2. EMITTER 3. COLLECTOR	STYLE 7: PIN 1. EMITTER 2. BASE 3. COLLECTOR	STYLE 8: PIN 1. ANODE 2. NO CONNECTION 3. CATHODE	N	
STYLE 9:	STYLE 10:	STYLE 11:	STYLE 12: PIN 1. CATHODE 2. CATHODE 3. ANODE	STYLE 13:	STYLE 14:
PIN 1. ANODE	PIN 1. DRAIN	PIN 1. ANODE		PIN 1. SOURCE	PIN 1. CATHODE
2. ANODE	2. SOURCE	2. CATHODE		2. DRAIN	2. GATE
3. CATHODE	3. GATE	3. CATHODE-ANODE		3. GATE	3. ANODE
STYLE 15:	STYLE 16:	STYLE 17:	STYLE 18:	STYLE 19:	STYLE 20:
PIN 1. GATE	PIN 1. ANODE	PIN 1. NO CONNECTION	PIN 1. NO CONNECTION	N PIN 1. CATHODE	PIN 1. CATHODE
2. CATHODE	2. CATHODE	2. ANODE	2. CATHODE	2. ANODE	2. ANODE
3. ANODE	3. CATHODE	3. CATHODE	3. ANODE	3. CATHODE-ANODI	3. GATE
STYLE 21:	STYLE 22:	STYLE 23:	STYLE 24:	STYLE 25:	STYLE 26:

PIN 1. ANODE

ANODE

CATHODE

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DESCRIPTION:	SOT-23 (TO-236)		PAGE 1 OF 1

PIN 1. GATE 2. DRAIN

3. SOURCE

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PIN 1. GATE

2. SOURCE

3. CATHODE

DRAIN

STYLE 27: PIN 1. CATHODE 2. CATHODE

PIN 1. CATHODE 2. ANODE

3. NO CONNECTION



SCALE 2:1

SC-59 CASE 318D-04 ISSUE H

DATE 28 JUN 2012

NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: MILLIMETER.

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	MOM	MAX
Α	1.00	1.15	1.30	0.039	0.045	0.051
A1	0.01	0.06	0.10	0.001	0.002	0.004
b	0.35	0.43	0.50	0.014	0.017	0.020
С	0.09	0.14	0.18	0.003	0.005	0.007
D	2.70	2.90	3.10	0.106	0.114	0.122
E	1.30	1.50	1.70	0.051	0.059	0.067
е	1.70	1.90	2.10	0.067	0.075	0.083
L	0.20	0.40	0.60	0.008	0.016	0.024
HE	2.50	2.80	3.00	0.099	0.110	0.118

GENERIC MARKING DIAGRAM



XXX = Specific Device Code

Μ = Date Code = Pb-Free Package*

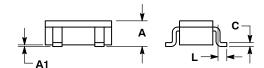
(*Note: Microdot may be in either location)

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " ■", may or may not be present.

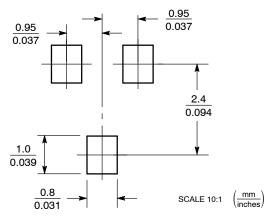


TYLE 4:	STYLE 5:	STYLE 6:
PIN 1. CATHODE	PIN 1. CATHODE	PIN 1. ANODE
2. N.C.	CATHODE	2. CATHODE
3 ANODE	3 ANODE	2 ANODE/CATHODE

Ε ΗE



SOLDERING FOOTPRINT*



*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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DESCRIPTION:	SC-59		PAGE 1 OF 1

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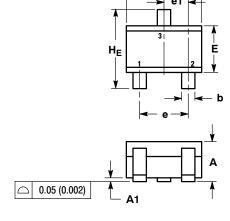


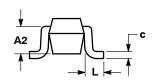
SC-70 (SOT-323) CASE 419-04 ISSUE N

DATE 11 NOV 2008

- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 CONTROLLING DIMENSION: INCH.

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α	0.80	0.90	1.00	0.032	0.035	0.040
A1	0.00	0.05	0.10	0.000	0.002	0.004
A2		0.70 REF 0.028 REF			=	
b	0.30	0.35	0.40	0.012	0.014	0.016
С	0.10	0.18	0.25	0.004	0.007	0.010
D	1.80	2.10	2.20	0.071	0.083	0.087
E	1.15	1.24	1.35	0.045	0.049	0.053
е	1.20	1.30	1.40	0.047	0.051	0.055
e1	0.65 BSC			0.026 BSC		
L	0.20	0.38	0.56	0.008	0.015	0.022
He	2 00	2 10	2 40	0.079	0.083	0.095





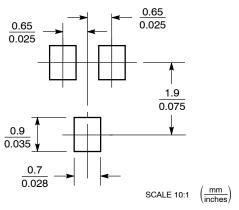
GENERIC MARKING DIAGRAM



XX = Specific Device Code Μ = Date Code = Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " ■", may or may not be present.

SOLDERING FOOTPRINT*



*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

STYLE 1: CANCELLED	STYLE 2: PIN 1. ANODE 2. N.C. 3. CATHODE	STYLE 3: PIN 1. BASE 2. EMITTER 3. COLLECTOR	STYLE 4: PIN 1. CATHODE 2. CATHODE 3. ANODE	STYLE 5: PIN 1. ANODE 2. ANODE 3. CATHODE	
STYLE 6: PIN 1. EMITTER 2. BASE	STYLE 7: PIN 1. BASE 2. EMITTER	STYLE 8: PIN 1. GATE 2. SOURCE	STYLE 9: PIN 1. ANODE 2. CATHODE	STYLE 10: PIN 1. CATHODE 2. ANODE	STYLE 11: PIN 1. CATHODE 2. CATHODE
COLLECTOR	COLLECTOR	3. DRAIN	CATHODE-ANODE	3. ANODE-CATHODE	CATHOD

DOCUMENT NUMBER:	98ASB42819B	Electronic versions are uncontrolled except when accessed directly from the Document Reposit Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	SC-70 (SOT-323)		PAGE 1 OF 1	

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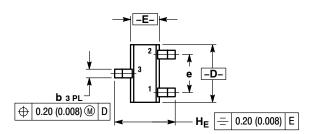
MECHANICAL CASE OUTLINE

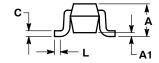




SC-75/SOT-416 CASE 463-01 ISSUE G

DATE 07 AUG 2015





STYLE 1: PIN 1. BASE 2. EMITTER

3. COLLECTOR STYLE 4:

PIN 1. CATHODE 2. CATHODE 3. ANODE

STYLE 2: PIN 1. ANODE 2. N/C 3. CATHODE STYLE 5: PIN 1. GATE 2. SOURCE

3. DRAIN

STYLE 3: PIN 1. ANODE 2. ANODE 3. CATHODE

NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: MILLIMETER.

		MILLIMETERS			INCHES		
D	MIC	MIN	NOM	MAX	MIN	NOM	MAX
	Α	0.70	0.80	0.90	0.027	0.031	0.035
	41	0.00	0.05	0.10	0.000	0.002	0.004
	b	0.15	0.20	0.30	0.006	0.008	0.012
	С	0.10	0.15	0.25	0.004	0.006	0.010
	D	1.55	1.60	1.65	0.061	0.063	0.065
	Е	0.70	0.80	0.90	0.027	0.031	0.035
	е	1.00 BSC			0.04 BSC		
	L	0.10	0.15	0.20	0.004	0.006	0.008
H	ΙE	1.50	1.60	1.70	0.060	0.063	0.067

GENERIC MARKING DIAGRAM*



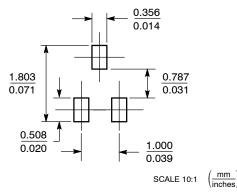
XX= Specific Device Code

Μ = Date Code

= Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " ■", may or may not be present.

SOLDERING FOOTPRINT*



*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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DESCRIPTION:	SC-75/SOT-416		PAGE 1 OF 1	

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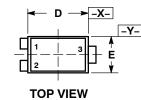


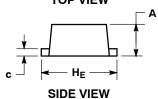


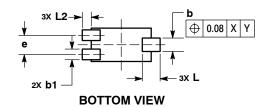
SOT-1123 CASE 524AA ISSUE C

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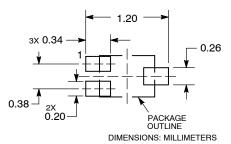
SCALE 8:1







SOLDERING FOOTPRINT*



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NOTES:

- NOTES:

 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.

 2. CONTROLLING DIMENSION: MILLIMETERS.
- 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE
- MINIMUM THICKNESS OF BASE MATERIAL.
 DIMENSIONS D AND E DO NOT INCLUDE MOLD
 FLASH, PROTRUSIONS, OR GATE BURRS.

	MILLIMETERS			
DIM	MIN	MAX		
Α	0.34	0.40		
b	0.15	0.28		
b1	0.10	0.20		
С	0.07	0.17		
D	0.75	0.85		
E	0.55	0.65		
е	0.35	0.40		
HE	0.95	1.05		
Ĺ	0.185 REF			
L2	0.05	0.15		

GENERIC MARKING DIAGRAM*



= Specific Device Code

Μ = Date Code

*This information is generic. Please refer to device data sheet for actual part marking.

Pb-Free indicator, "G" or microdot " ■", may or may not be present.

STYLE 1:	STYLE 2:	STYLE 3:	STYLE 4:	STYLE 5:
PIN 1. BASE	PIN 1. ANODE	PIN 1. ANODE	PIN 1. CATHODE	PIN 1. GATE
2. EMITTER	2. N/C	2. ANODE	2. CATHODE	2. SOURCE
COLLECTOR	CATHODE	CATHODE	ANODE	3. DRAIN

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DESCRIPTION:	SOT-1123, 3-LEAD, 1.0X0	.6X0.37, 0.35P	PAGE 1 OF 1	

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SOT-723 CASE 631AA-01 ISSUE D

DATE 10 AUG 2009

NOTES:

- NOTES.

 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.

 2. CONTROLLING DIMENSION: MILLIMETERS.

 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD
- FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
- DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.

	MILLIMETERS			
DIM	MIN	NOM	MAX	
Α	0.45	0.50	0.55	
b	0.15	0.21	0.27	
b1	0.25	0.31	0.37	
С	0.07	0.12	0.17	
D	1.15	1.20	1.25	
E	0.75	0.80	0.85	
е	0.40 BSC			
ΗE	1.15	1.20	1.25	
L	0.29 REF			
L2	0.15	0.20	0.25	

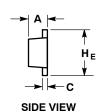
GENERIC MARKING DIAGRAM*

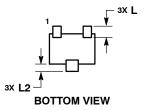


= Specific Device Code XX Μ = Date Code

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G", may or not be present.

-X-2X b ⊕ 0.08 X Y **TOP VIEW**



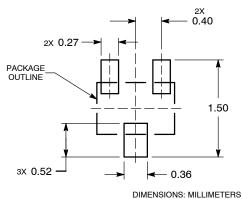


STYLE 1:
PIN 1. BASE
EMITTER
COLLECTOR

STYLE 2: PIN 1. ANODE 2. N/C 3. CATHODE STYLE 3: PIN 1. ANODE 2. ANODE 3. CATHODE

STYLE 4: PIN 1. CATHODE 2. CATHODE 3. ANODE STYLE 5: PIN 1. GATE 2. SOURCE 3. DRAIN

RECOMMENDED SOLDERING FOOTPRINT*



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